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NOTICE OF ALLOWANCE AND FEE(S) DUE

909 7590 10/18/2010
PILLSBURY WINTHROP SHAW PITTMAN, LLP

PILLSBURY WINTHROP SHAW PITTMAN, LLI P.O. BOX 10500 MCLEAN, VA 22102 EXAMINER

MATHEWS, ALAN A

ART UNIT PAPER NUMBER

7887

DATE MAILED: 10/18/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/823,777	04/14/2004	Aleksey Yurievich Kolesnychenko	081468-0309196	4703	
TITLE OF INVENTION: LITHOGRAPHIC APPARATUS AND DEVICE MANUFACTURING METHOD					

 APPLN TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEES) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 01/18/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	ng the Patent, advance nerwise in Block 1, by	orders and notification of (a) specifying a new corre	maintenance fees w spondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bi	iock 1 for any change of address	s) Noi Fee pap hay	te: A certificate of (s) Transmittal. Thi ers. Each additiona e its own certificate	mailings certiled to the certile certi	can only be used for icate cannot be used to such as an assignmental ling or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/823,777 TITLE OF INVENTION	04/14/2004 : LITHOGRAPHIC API		leksey Yurievich Kolesnych CE MANUFACTURING M		0	81468-0309196	4703
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	S FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	01/18/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
MATHEWS	S, ALAN A	2882	355-053000				
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.11. Comp	inge of Correspondence "Indication form and. Use of a Customer A TO BE PRINTED ON		o 3 registered paten wely, le firm (having as a agent) and the nam meys or agents. If printed. pe) astent. If an assign assignment.	memb es of u no nan	er a 2	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be	printed on the patent):	Individual 🗖 Co	orporati	on or other private gr	oup entity Government
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount p		4b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Depi	rd. Form PTO-2038	is atta	ched.	shown above) ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	as. See 37 CFR 1.27.	b. Applicant is no lor				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accep ites Patent and Tradema	ted from anyone other than irk Office.	the applicant; a regi	stered.	attorney or agent; or the	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	CFR 1.311. The informa U.S.C. 122 and 37 CF USPTO. Time will varden, should be sent to O NOT SEND FEES OF	tion is required to obtain or R 1.14. This collection is es ry depending upon the indi the Chief Information Offic R COMPLETED FORMS T	retain a benefit by t timated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minuter mment Trader i. SEN	lic which is to file (and to complete, including s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	d by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/823,777	04/14/2004	Aleksey Yurievich Kolesnychenko	081468-0309196	4703	
909 75	590 10/18/2010		EXAM	UNER	
PILLSBURY WINTHROP SHAW PITTMAN, LLP P.O. BOX 10500			MATHEWS, ALAN A		
			ART UNIT	PAPER NUMBER	
MCLEAN, VA 22102			2882		
		DATE MAILED: 10/18/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 439 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 439 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/823,777 KOLESNYCHENKO ET AL. Notice of Allowability Examiner Art Unit ALAN A. MATHEWS 2882 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REM herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. I of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPI	IAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS his application is subject to withdrawal from issue at the initiativ				
 This communication is responsive to <u>communication filed 10-7-10</u>. 					
2. The allowed claim(s) is/are <u>1-3,5,6,8,10-20,24-35 and 37-48</u> .					
 Acknowledgment is made of a claim for foreign priority under 35 U a) All b) Some* c) None of the: 	.S.C. § 119(a)-(d) or (f).				
 Certified copies of the priority documents have been red 	ceived.				
Certified copies of the priority documents have been red	ceived in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this co noted below. Failure to timely comply will result in ABANDONMENT of tHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
 A SUBSTITUTE OATH OR DECLARATION must be submitted. Not INFORMAL PATENT APPLICATION (PTO-152) which gives reason 					
5. CORRECTED DRAWINGS (as "replacement sheets") must be subr	nitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Pate	ent Drawing Review (PTO-948) attached				
 □ hereto or 2) □ to Paper No./Mail Date 					
(b) ☐ including changes required by the attached Examiner's Amendr Paper No./Mail Date	ment / Comment or in the Office action of				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) she each sheet. Replacement sheet(s) should be labeled as such in the header					
 DEPOSIT OF and/or INFORMATION about the deposit of BIO attached Examiner's comment regarding REQUIREMENT FOR THE 					
Attachment(s)					
1. Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (PTO-413),				
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	Paper No./Mail Date 7. ⊠ Examiner's Amendment/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statement of Reasons for Allowance				
	9. Other .				

/Alan A. Mathews/

Primary Examiner, Art Unit 2882

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Art Unit: 2882

EXAMINER'S COMMENT

Rejoinder of claims

1. Independent claims 1, 19, and 28, and their respective dependent claims are allowable. Claims 6, 13, 14, and 41-43, previously withdrawn from consideration as a result of a restriction requirement, contain all the limitations of an allowable claim 1. since they depend from claim 1 either directly or indirectly. Claims 26 and 48, previously withdrawn from consideration as a result of a restriction requirement, contain all the limitations of an allowable claim 19, since they depend from claim 19 either directly or indirectly. Claims 31 and 33, previously withdrawn from consideration as a result of a restriction requirement, contain all the limitations of an allowable claim 28, since they depend from claim 28 either directly or indirectly. Claims 6, 13, 14, 26, 31, 33, 41-43, and 48 are hereby reioined and fully examined for patentability under 37 CFR 1.104. Applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. See also MPEP § 804.01.

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EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims, claim 6, line 1, cancel ---(Withdrawn)---.

Claim 13, line 1, cancel --- (Withdrawn)---.

Claim 14, line 1, cancel --- (Withdrawn)---.

Claim 26, line 1, cancel --- (Withdrawn)---.

Claim 31, line 1, cancel --- (Withdrawn)---.

Claim 33, line 1, cancel --- (Withdrawn)---.

Claim 41, line 1, cancel --- (Withdrawn)---

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Claim 42, line 1, cancel --- (Withdrawn)---.
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Claim 43, line 1, cancel --- (Withdrawn)---.

Claim 48, line 1, cancel --- (Withdrawn)---.

3. The following is an examiner's statement of reasons for allowance:

The prior art does not disclose or suggest wherein the supplied liquid is confined to the localized area, while in normal use during projection of the patterned beam, in a controlled manner except for uncontrolled escaping liquid, wherein at least a portion of the substrate is not in contact with the escaping liquid, wherein the substrate table comprises a barrier configured to collect liquid escaping from the localized area, the barrier surrounding and spaced apart from the substrate and comprising a projection which projects out above an upper surface of the substrate when the substrate is held on the substrate table and a groove recessed into an upper surface of the substrate table to collect escaping liquid, and further comprising a low pressure supply configured to remove liquid from the barrier, the low pressure supply operating independently of the liquid supply system in combination with all the other elements recited in independent claim 1.

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The prior art does not disclose or suggest removing liquid from the barrier using a low pressure supply, the removing liquid from the barrier operating independently of providing the liquid, wherein the supplied liquid is confined to the localized area, while in normal use during projection of the patterned beam, in a controlled manner except for uncontrolled escaping liquid, and wherein at least a portion of the substrate is not in contact with the escaping liquid in combination with all the other elements recited in independent claim 19.

The prior art does not disclose or suggest wherein the majority of supplied liquid is confined to the localized area, while in normal use during projection of the patterned beam, in a controlled manner except for uncontrolled escaping liquid, wherein at least a portion of the substrate is not in contact with the escaping liquid, and wherein the substrate table comprises a barrier configured to collect liquid escaping from the localized area, the barrier surrounding and spaced apart from the substrate and positioned radially outwardly of a drainage ditch surrounding an outer peripheral edge of the substrate, to collect escaping liquid, and wherein the barrier additional surrounds a sensor mounted on an upper surface of the substrate table and/or a closure member configured to seal the liquid supply system in combination with all the other elements recited in independent claim 28.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALAN A. MATHEWS whose telephone number is (571)272-2123. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward J. Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alan A. Mathews/ Primary Examiner Art Unit 2882

AM